

## CLAIMS

1. A chemical sensor package comprising:

5 a. a substrate having a front surface and a back surface facing generally away from one another which surfaces extend generally in a common plane and which is comprised of a first non-conductive layer and a second non-conductive layer, the first layer being on the side of the substrate closer to the front surface of the substrate,

10 b. a electrically conductive trace extending in the plane of the substrate over an area in between the first and second substrate layers and having a front side facing toward the front surface of the substrate, the trace having a three-dimensional conductive circuit feature formed integrally therewith and projecting at least partly through the second non-conductive layer and outwardly of the back surface of the substrate for providing a readily connectable and disconnectable pressure interconnection to another element at said one side of said substrate

15 c. a sensing electrode overlying the trace at area of trace between the first and second substrate layers and having a front side facing toward the front surface of the substrate and a back side facing toward the back surface of the substrate, the electrode being in electrical contact with the trace and

20 d. a well extending into the substrate from the front surface to the front side of the electrode and being exposed to the front side of the electrode.